| <br>ex of Claims |
|------------------|
|                  |

| Application | No.   | Applicant(s) |   |
|-------------|-------|--------------|---|
| 10/629,392  | 2     | HUNT ET AL.  |   |
| Examiner    |       | Art Unit     |   |
| Erma Can    | neron | 1762         | • |

| <b>√</b> | Rejected |
|----------|----------|
| <b>.</b> | Allowed  |

|   | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| 1 | Interference |

| Α | Appeal   |
|---|----------|
| 0 | Objected |

| Claim   | <u> </u>           | -1            | Tests          |           |         |                                    |                |          |   |                          |               | W   |  |   |                         |              |                 |                  |              |              |               |     |   |   |          |  |           |           |          |           |  |
|---|--------------------|---------------|----------------|-----------|---------|------------------------------------|----------------|----------|---|--------------------------|---------------|-----|--|---|-------------------------|--------------|-----------------|------------------|--------------|--------------|---------------|-----|---|---|----------|--|-----------|-----------|----------|-----------|--|
| 1   | Cli                | $\overline{}$ | Uate Uate      |           |         |                                    |                |          |   | Date Claim Date Claim Da |               |     |  |   |                         |              |                 |                  |              |              |               | Da  | te  |   |          |  |           |           |          |           |  |
| 1   | =                  | ब्र           |                |           | 4       | 100                                | 1              | #        | 9                                       | K                        | 1_            | क   |  |   | -                       | 1            |                 |                  |              | 4            |               | =   |   | T   | T        | T  | T         | Т         | Γ        | Г         |  |
| 1   | ļ je               | iġ.           | 31             |           | 17      | 3                                  | }              | 10       | 11                                      | 4點                       | la<br>I       | gin |  |   |                         | 1            |                 |                  |              | 12           | nal           | Ë   |   |   |          | i  |           | 1         | 1        | 1         |  |
| 1   | "                  | δ             |                |           |         | 0-                                 | 7              | 06       | ١                                       |                          | ΙŒ            | Ö   |  |   |                         |              |                 |                  |              | 79.1         | 证             | Ę   |   |   |          |  | 1         |           |          |           |  |
| 2   |                    | <del></del>   |                |           |         |                                    | .1             | 1        |   | . بع                     | <u> </u>      |     | $\sqcup$   |   |                         | <u> </u>     | $\sqcup$        | $\perp$          | _            |              |               | L . |   |   |          |  |           | 1         |          |           |  |
| A   | <u> </u>           |               |                |           |         | 1                                  | <b>]</b>       |          | - 1                                     | 15                       |               | 51. | $\sqcup$   | $\dashv$  |                         | ╄-           | Ш.              |                  | $\perp$      | 1            |               |     |   |   |          |  | T         | $\top$    | Г        | T         |  |
| A   | -                  |               | <del>  X</del> |           |         | 114                                |                | M        | -1                                      | 1                        | <u> </u>      |     |  |   | - -                     | $\perp$      | $\sqcup$        | $\perp$          |              |              |               |     |   |   |          | Ι  |           |           |          | $\Box$    |  |
| 6   | <u> </u>           |               |                |           |         |                                    |                |          | <u> </u>                                | 4                        |               | 53  | $\sqcup$   |   | _                       | <del> </del> | $\sqcup$        |                  | _            |              |               |     |   | $\perp$   | T        | Т  | T         |           | П        | Г         |  |
| 6   | -                  | _             | _              | _         |         | 14                                 | <del>]</del> — | -        | _                                       | 10                       | <b></b>       |     | $\vdash$   |   | 4_                      | 4_           | $\perp \perp$   |                  | 丄            |              |               |     |   |   |          |  | Τ         |           |          | Г         |  |
| T   | <b></b>            |               | <del>  </del>  | _         |         |                                    |                | -        | <u> </u>                                | 1                        |               |     | $\vdash$   | _   |                         | _            | $\sqcup$        | _ _              | $\perp$      |              |               | 105 |   |   |          | $\prod$  | Т         |           |          |           |  |
| S   | <del></del>        |               | _              | -         |         |                                    | <del> </del>   |          | 1-                                      | 1                        |               | 56  |  | -   |                         | -            | <u> </u>        |                  | ┸            | 12           |               | 106 |   |   |          |  |           |           |          |           |  |
| 9   | <b> </b>           |               |                | $\dashv$  |         |                                    | <del> </del> — |          | 1                                       | 1                        | <u> </u>      | 5/  | $\vdash$   | - -   | - -                     | 4            | $\vdash$        |                  |              |              | <u> </u>      |     |   |   | 1        |  |           |           |          |           |  |
| 10  | <u> </u>           |               |                | -         |         | 1                                  | 1              |          | <u>ال</u>                               | 1                        | <del> </del>  | 58  | ⊢⊹   |   |                         | ╂            | <u> </u>        | 4                | 1            | 闖            |               | 108 |   | i_  | ┸        | 1  |           |           |          |           |  |
| 11  | <u> </u>           |               |                | -         |         |                                    | -              |          | 4٢                                      | 3월                       |               |     | <del> </del>                                     |   |                         | ╁            | $\vdash$        |                  | ┼            |              |               |     |   |   | 4_       | 1  |           | Ш         |          | L         |  |
| 12  | <u> </u>           |               |                |           |         |                                    | -              |          | - 는                                     | 1                        |               | 61  |  |   | +-                      | -            |                 | -                | 4            |              |               | 110 | _   | 4   | 1        | _  | _         | Ш         | L        |           |  |
| 13  |                    |               |                | -         |         | _                                  | ┢              |          | 1                                       | 3,                       |               |     | $\vdash$   |   | +                       | ┼            |                 |                  | +            | 12:1         |               |     | $\dashv$  |   | $\perp$  | 1_   | 1_        | $\sqcup$  |          | 匚         |  |
| 14  |                    |               |                |           |         | <u></u>                            | 1-             | ш.       | 1                                       | 1                        | <b>-</b>      | 63  | $\vdash \vdash$                                  | -   | +                       | $\vdash$     | +               | +                | -            | 13.          |               |     | $\perp$   |   | 4        | <b> </b>   | ↓_        | Ш         | <u> </u> | _         |  |
| 16  |                    |               |                | -         |         |                                    | H              |          | 1                                       | *                        |               |     | $\vdash \vdash$                                  |   | +-                      | +-           |                 | - <del> </del> - | +            | 107          |               |     |   | ┩.  | +-       | ↓_   | <b>_</b>  | ┞┤        |          | L         |  |
| 16  |                    |               |                | 7         |         | -14-                               |                | -        | -                                       | 1.                       | -             | 65  | $\vdash$   |   |                         | -            |                 | - -              | +-           | ┨ }          |               | 114 |   |   | -        | <u> </u>   | ┡         | $\square$ |          |           |  |
| 17  |                    |               |                | 7         |         | V                                  | $\vdash$       | 1        | 1                                       |                          |               |     | <del>                                     </del> |   | +-                      | +-           |                 | +                | +-           | 5-1          |               |     |   | - -   | -        | <u> </u>   | ـ         | $\sqcup$  | · !      | _         |  |
| 18  |                    |               |                | 寸         | ᆉ       |                                    |                |          | 1                                       | 1                        |               | 67  |  | - -   |                         | -            | -               |                  | ╁            |              |               | 116 |   | -   |          | <del> </del>                                     | _         | $\sqcup$  |          |           |  |
| Ne  |                    |               |                | $\exists$ | -       |                                    | $\vdash$       |          |   | 13                       |               |     | $\vdash$   | -+  | +-                      | +            |                 | +-               | ┼            | 1:           |               |     | $\vdash$  |   | -        | -  | ļ         | $\sqcup$  | _        | <u> </u>  |  |
| 10  |                    | 19            |                |           | $\neg$  | N                                  |                |          | <del>-   -</del>                        |                          |               | 69  | -  | - -   |                         | +            | +               | +                | +-           |              | $ \parallel$  | 110 |   |   | +-       | <del> </del>                                     | $\vdash$  | $\vdash$  |          |           |  |
| 21   22   121   121   121   122   123   123   123   123   124   124   124   124   124   125   126   125   126   126   127   127   128   128   128   128   128   129   128   129   130   130   130   131   130   131   131   131   131   132   132   132   132   133   133   133   133   134   134   134   134   134   135   136   137   137   136   137   137   136   137   138   138   138   138   138   138   138   139   140   141   141   141   142   143   144   144   144   144   145   146   146   147   146   147   148   149   |                    | 20            |                | $\neg$    | $\neg$  | - '-                               |                |          | 1                                       |                          |               | 70. | -  | $\dashv$  | +                       | 1-           |                 | +-               | ╁            | <del> </del> |               | 120 |   |   | ┼-       | $\vdash$   | _         |           | -        | _         |  |
| 22   122   123     24   123   123     25   125   126     26   126   126     27   127   128     28   128   128     29   79   129     30   80   130     31   81   131     32   82   132     33   83   133     34   84   133     35   85   135     36   86   136     37   87   137     38   88   138     39   139     40   90   140     41   91   141     42   92   142     43   93   144     44   94   144     45   96   145     46   96   145     47   97   148     98   149   149   |                    | 21            |                |           |         |                                    |                |          | _                                       | 85 d<br>35 d             |               | 71  | -  |   | +-                      | $\vdash$     |                 |                  | ┿            | <b>∤</b> ::} |               | 124 |   |   | -        | ╄  | <u> </u>  | -         |          |           |  |
| 23     73     123     124     124     124     125     125     125     126     126     126     126     127     127     128     127     127     128     129     129     130   |                    | 22            |                | $\neg$    |         |                                    |                |          |   |                          |               | 72  | 1  | -   | +-                      | $\vdash$     | <del>-</del>  - | +                | ╁            | 1            |               | 122 |   | - -   | ╄        | ╀  | -         |           | -        | _         |  |
| 24   74   75   125   125   126   126   126   126   126   127   127   128   127   127   128   128   129   129   129   129   130   130   130   130   131   131   131   131   131   131   131   131   132   132   132   132   133   134   134   133   134   134   133   134   134   134   135   136   137   136   137   136   137   137   138   138   138   138   139   139   140   141   141   141   142   142   142   143   144   144   144   144   145   146   147   145   146   147   148   149<   |                    |               |                |           | $\neg$  |                                    | П              |          | $\top$                                  | 7.1                      |               | 73  |  |   | +-                      | $\vdash$     | 十               | +                | +-           |              |               | 122 | +   | +   | ╁        | -  |           | $\vdash$  | $\dashv$ | $\dashv$  |  |
| 25     75     125     126     126     126     127     127     127     127     127     127     127     128     128     128     129     129     129     130     130     130     131     131     131     131     131     132     132     132     132     132     133     134     134     134     134     134     134     134     135     135     135     136     136     136     137     137     138     138     138     138     139     139     140     141     141     141     141     141     142     142     142     142     143     144     144     144     144     144     144     144     144     145     146     147     148     149   |                    | 24            |                |           | $\neg$  |                                    |                | 一        | 1                                       | νţ                       |               | 74  | 1  | _   |                         | 1            | $\dashv$        | +                | +            |              |               | 124 |   | +   | ╁        | ļ_   | -         | ┝╌┼       | $\dashv$ |           |  |
| 26   76   126     27   127     28   128     29   79     30   129     31   130     32   81     33   131     34   82     83   132     33   83     34   84     85   133     36   86     37   137     38   88     39   89     40   90     41   91     42   92     43   93     44   94     45   95     46   96     47   97     48   99     49   99   |                    | 25            |                | $\Box$    |         |                                    |                |          | 1                                       | 4                        |               | 75  |  | _ -   | 1                       |              | _               | 1                | +-           |              |               | 125 |   |   | ╁        | -  | $\vdash$  | $\vdash$  |          | $\dashv$  |  |
| 27   28   77   127   128     29   30   80   129   129     30   80   130   131   131   131     32   82   132   132   133   133   133   134   134   134   134   135   135   136   135   136   137   136   137   136   137   137   136   137   137   136   137   138   138   138   138   139   140   141   141   141   141   142   142   142   142   142   143   144   144   144   144   144   144   144   144   144   144   144   145   146   147   147   148   148   148   148   149   |                    | 26            | $\perp$        |           |         |                                    |                |          |   | (3)                      |               | 76  |  |   | $\top$                  |              | $\neg$          | $\top$           | $\vdash$     | 1 : 1        | $\overline{}$ | 126 | -   |   | ╁        | ┢╌   |           | $\vdash$  |          | $\dashv$  |  |
| 28   78   128   129     30   80   130   131     31   81   131   131     32   82   132   132     33   83   133   133     34   84   134   134     35   85   135   136     37   87   137   137     38   88   138   138     39   89   139   139     40   90   140   140     41   91   141   141     42   92   144   144     43   94   144   144     45   96   145   146     47   97   148   149   |                    | 27            |                |           |         |                                    |                |          |   |                          |               | 77  |  |   | 1-                      |              |                 | +                | $\vdash$     |              |               | 127 | $\dashv$  | +-  | $\vdash$ | <del> </del>                                     | -         |           | $\dashv$ | $\dashv$  |  |
| 129   | <u> </u>           |               |                |           |         |                                    |                |          |   | 10.7                     |               | 78  |  | $\neg$  | 1                       | $\Box$       | $\top$          | $\top$           | T            |              |               | 128 | $\dashv$  | +   | +        | ╁─   | Н         | -         | $\dashv$ | $\dashv$  |  |
| 31   81   131     32   132   132     33   133   133     34   84   134     35   85   135     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   142     44   95   144     45   96   144     46   96   144     47   97   147     48   98   148     49   99   149   |                    | 29            | _              | _         |         | $\sqcup$                           |                |          |   |                          |               |     | $\neg$   |   | $\top$                  |              |                 | _                | $\vdash$     |              |               | 129 | -   | -   | +-       | <del> </del>                                     | -         | $\dashv$  | -        |           |  |
| 31   81   131   132     32   83   132   133     34   84   134   134     35   86   135   136     36   86   136   136     37   87   137   137     38   88   138   138     39   89   139   139     40   90   140   141     41   91   144   141     42   92   142   143     43   94   144   144     45   96   144   145     46   96   146   147     48   98   99   149  |                    |               | _              | _         |         |                                    |                |          |   |                          | $\Box$        |     |  |   |                         |              | $\neg$          | $\top$           | _            |              |               | 130 | _   |   | +-       | <del>                                     </del> | Н         | $\dashv$  | $\dashv$ | $\dashv$  |  |
| 32   82     33   133     34   84     35   134     36   86     37   135     38   86     39   88     40   90     41   91     42   92     43   93     44   94     45   95     46   96     47   97     48   99     48   99     48   99  | L                  |               | _              | $\dashv$  |         | Ш                                  |                |          |   |                          |               |     |  |   |                         |              |                 |                  |              |              |               |     | +   | +   | $\vdash$ |  | Н         | _         | $\dashv$ | $\dashv$  |  |
| 34   35   133   134   134   135   135   136   135   136   136   137   136   137   137   138   138   138   138   138   139   140   140   140   141   140   141   141   141   141   141   141   142   142   143   144   144   144   144   145   145   146   147   148   149   148   149   | $\vdash$           | 32            |                | 4         |         | $\perp$                            |                | $\perp$  | 1.                                      |                          | ]             |     |  |   |                         |              |                 | 7                | $\Box$       |              |               | 132 | +   | †   | †        |  |           | $\dashv$  | $\dashv$ | $\dashv$  |  |
| 34 84   35 134   36 136   37 86   38 137   38 88   39 139   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99   140 141   48 98   49 99   140 144   48 99   140 144   48 99   140 144   48 99   140 144   48 99   148 149   | <b>  </b>          | 33            | _              | _ _       | - -     | $\sqcup$                           |                |          | 1                                       |                          |               |     | $oldsymbol{\bot}$                                | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |                         |              |                 |                  |              |              |               | 133 | 十   | $\top$  | 1        |  | $\vdash$  | -         | $\dashv$ | $\dashv$  |  |
| 36 85   37 86   38 88   39 89   40 90   41 91   42 92   43 94   44 94   45 95   46 96   47 97   48 98   49 99   140 141   48 99   48 99   48 99   48 99   48 99   48 99   49 149  |                    |               | 4              | -         |         | $\downarrow \downarrow \downarrow$ | $\dashv$       |          | ↓_                                      | 12.5                     | ]             | 84  |  |   |                         |              |                 | Ī                |              |              |               |     | $\top$  | 1   | 1        | $\vdash$   | $\vdash$  |           | $\dashv$ | ᅱ         |  |
| 37 86   37 137   38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99   136 137   138 139   140 140   141 141   142 142   143 144   145 146   147 148   148 149  | ├ <del>-</del> - - | 35            | $\dashv$       |           |         |                                    | _              | _        | 1_                                      | 1                        |               |     | $\Box$   | $\bot$  |                         | Ш            |                 | $\Gamma$         |              |              |               | 135 | _ -   | 1   | $\vdash$ |  | -         | 十         | 7        | 一         |  |
| 37 38 137 138   39 89 139   40 90 140   41 91 141   42 92 142   43 93 143   44 94 144   45 95 145   46 96 146   47 97 147   48 99 148   49 99 148   48 99 149   | $\vdash$           |               | $\dashv$       | 4         |         | +                                  | _              | _ _      | 1                                       |                          |               |     | _  |   |                         | $\Box$       |                 | L                |              |              |               | 136 | _ -   | 7   |          | П  | $\dashv$  | $\dashv$  | 十        | ᅱ         |  |
| 36 39 138 139   40 90 140   41 91 141   42 92 142   43 93 143   44 94 144   45 95 145   46 96 146   47 97 147   48 98 148   49 99 149   |                    |               | $\dashv$       | -         |         | +                                  |                | +        | 4                                       | 34                       |               |     |  |   | igspace                 | Ш            |                 |                  |              |              | $\Box$        | 137 |   | T   | $\Box$   | П  | $\neg$    | $\dashv$  | 十        | 一         |  |
| 39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99   139 140   141 141   142 142   143 144   145 146   147 147   148 149   149 149   |                    |               | $\dashv$       | -         |         | 1                                  |                |          | $\bot$                                  | 1                        | $\rightarrow$ |     |  |   | L.                      |              |                 |                  |              |              |               | 138 |   |   | Т        | П  | _         | 十         | $\dashv$ | $\dashv$  |  |
| 41 91   42 92   43 93   44 93   45 94   46 95   47 96   48 98   49 99   49 99   |                    |               | $\dashv$       | +         |         | ++                                 | -              | $\dashv$ | +                                       | [77].                    |               | 89  |  |   | ot                      | Ш            | $\perp$         | $\perp$          |              |              |               | 139 | 丁   |   |          |  | 7         | _         | $\dashv$ | $\dashv$  |  |
| 91<br>42<br>43<br>44<br>45<br>46<br>47<br>48<br>49<br>97<br>48<br>99<br>99<br>141<br>142<br>93<br>143<br>144<br>144<br>95<br>145<br>96<br>146<br>97<br>147<br>98<br>98<br>99<br>148<br>149<br>149<br>149<br>149<br>149<br>149<br>149<br>149   |                    |               | +              | +         | -       | +                                  | -              | _        | +                                       |                          |               | 90  | 4  | _   | Ш                       | $\Box$       |                 | $\perp$          |              | - ::[        |               |     |   | Ι   |          |  | $\dashv$  | $\top$    | 7        | $\dashv$  |  |
| 43 93   44 94   45 95   46 96   47 98   48 99   49 99   |                    | 41            |                | +         | -       | ++                                 | -+             |          | -                                       |                          |               |     | _  | 4   | Ш                       | $\Box$       |                 | 1                |              | } [          |               | 141 |   | Τ   | П        | $\Box$   | $\neg$    | 十         | 十        | $\dashv$  |  |
| 44 94   45 94   46 95   47 96   48 97   49 98   49 99   |                    |               | +              | +         |         | ╁╌┼                                | +              | -        | -                                       | 95.                      |               |     | 4  | 4   | Ш                       | Ш            |                 | L                | $oxed{\Box}$ |              |               | 142 | $\Box$  | Γ   |          |  | $\exists$ | $\top$    | 十        | $\neg$    |  |
| 45 95   46 96   47 97   48 98   49 99   | -+                 |               | +              | +         | -       | ┦╌┤                                |                | - -      | +-                                      | . г                      |               |     | -  | 4   | $\sqcup$                |              |                 | 1                |              | . [          |               |     | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ | $\Gamma$  |          |  | 寸         | $\top$    | $\neg$   | $\neg$    |  |
| 46 96   47 97   48 98   49 99   | +                  |               |                | +         |         | ╁                                  | +              |          | -                                       |                          |               |     | -  | _   | $\downarrow \downarrow$ |              | _ _             | 4_               | $\square$    | L            |               |     | $oldsymbol{\perp}$                                | I   |          | $\Box$   | $\Box$    | $\top$    | $\top$   | $\neg$    |  |
| 47 97   48 98   49 99   148   49   99   | -+                 |               | +              | +         | +       |                                    |                | - -      | +-                                      | 1                        |               |     | _  | _ _   | $\sqcup$                | $\perp$      | -               |                  |              |              |               | 145 | I   | Ι   |          |  | _         | $\top$    | 十        | ٦         |  |
| 48<br>49<br>98<br>148<br>149  |                    |               | $\dashv$       |           | - -     | $\vdash \downarrow$                | +              | - -      | +-                                      | -  -                     |               |     | +  |   | $\sqcup$                |              |                 | $\perp$          |              |              |               |     | $\perp$   |   |          |  |           | 丁         | $\top$   | $\neg$    |  |
| 49 99 149   |                    |               |                | +         | +       | ⊢⊦                                 | +              | +        | -                                       | -                        |               |     |  | - -   | $\vdash \vdash$         |              | - -             | $\sqcup$         | Ш            |              |               |     |   | $oldsymbol{ol}}}}}}}}}}}}}} $ |          | コ  |           | _         | $\top$   | $\neg$    |  |
|   |                    |               | - -            |           |         | ┝┼                                 | +              |          | +                                       | -                        | -             | 98  | -  |   |                         | _            | _ _             | $\sqcup$         |              |              |               |     |   |   |          |  |           |           | 7        | $\neg$    |  |
| 150   1 |                    |               | - -            |           | +-      | $\vdash$                           | $\dashv$       |          | ┼┤                                      | }                        |               |     | - -  | -   | $\sqcup$                | _            |                 | Ш                |              | L            |               |     | $\bot$  |   |          | J  | $\Box$    |           | T        | $\exists$ |  |
|   |                    | <del></del> 1 |                |           | _ــــــ | <b>!!</b>                          | !_             |          | لــــــــــــــــــــــــــــــــــــــ | L                        |               | 100 |  | _L_   | Ш                       |              |                 | Ш                |              | L            |               | 150 |   |   |          |  | $\Box$    | _[        |          |           |  |